

OBSERVATION OF A NEW $^2\Sigma^+ - ^2\Sigma^+$ TRANSITION OF PtF BY INTRACAVITY LASER ABSORPTION SPECTROSCOPY

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A new electronic transition of PtF was observed by intracavity laser absorption spectroscopy. Based on the theoretical calculations of the electronic structure, this spectrum is assigned as the $^2\Sigma^+ - ^2\Sigma^+$ transition. PtF molecules were produced in a Pt-lined hollow cathode sputter source in Ar with a trace of SF₆. Results of the analysis will be presented.